

BARRON COUNTY HIGHWAY DEPARTMENT

260 North 7th Street • Barron, WI 54812
Phone: 715-637-3755 • Fax: 715-637-3061



Mark Servi, Highway Commissioner
Nate Nelson, Highway Operations Manager
Matt Kaiser, Equipment and Facility Manager
Lori Raven, Engineering Technician
Sandra Perry, Administrative Assistant III
Anthony Tangwall, Administrative Assistant III

mark.servi@co.barron.wi.us
nate.nelson@co.barron.wi.us
gary.trott@co.barron.wi.us
lori.raven@co.barron.wi.us
sandra.perry@co.barron.wi.us
tony.tangwall@co.barron.wi.us

**REQUEST FOR PROPOSALS
FOR
ENGINEERING DESIGN AND CONSTRUCTION INSPECTION SERVICES
FOR THE REPLACEMENT OF
P-03-093
15TH AVENUE BRIDGE OVER THE YELLOW RIVER
August 15, 2022**

On behalf of the Town of Barron, the Barron County Highway Department is requesting bids for engineering design and construction inspection services for the replacement of P-03-093, 15th Avenue over the Yellow River and necessary approach work. Both the design and construction phases of the project are being funded with Local Road Improvement Program – Supplemental Funding and Town of Barron matching funds. Below is a list of the minimum requirements which should be included in the scope of work of a submitted proposal. This list is not inclusive. Any additional work or services that are necessary or required to complete the required project documents, contact administration and construction management shall be included in the proposal. Barron County staff will be administering the project for the Town of Barron.

GENERAL INFORMATION:

- 1) The work includes project documents, administration and management to bid and construction management / inspection of the project construction.
- 2) Project Schedule: Project plans are to be completed by January 20th, 2023. The construction project will be bid on February 16, 2023. Construction will be in the 2023 construction season.
- 3) Proposals will be based on single stage (road closed) construction and will include a traffic detour signing plan.
- 4) The superstructure is intended to be a two span Press Brake Steel Tub Girder. The superstructure design will be performed by others. Coordination will be required between the selected engineering firm and the superstructure designer.

DOCUMENTS AND BID REQUIREMENTS:

- 1) Plans, Specifications and Special Provisions as required per
 - a) WISDOT Facility Development Manual
 - b) WISDOT Standard Specifications for Highway and Structure Construction 2023 Edition
 - c) WISDOT Bridge Manual***Note there is no WISDOT involvement in this project, it is local design and construction. Intent is to provide a format and bid documents contractors are familiar with***
- 2) Engineers Estimate of Construction Costs
- 3) All permits as required
- 4) Coordination with the Superstructure designer
- 5) Bid Notice and Advertisement for the Town of Barron to publish locally
- 6) Bid Form and related documents
- 7) Develop the construction contact working day schedule
- 8) Compile qualified bidder list and perform notification
- 9) Project Documents and bid notice must be posted to an online project bid management website for viewing and downloading by bidders

- 10) Review of submitted bids and recommendation of award of the contract
- 11) Contract documents
- 12) Any other documents and work required to design and bid the project for the required scope of the work
- 13) Provide separate cost for the design and bidding of the project

CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES:

- 1) Provide on-site field review and inspection over the construction project as necessary to ensure adherence to the project specifications and other project documents. This will be based on the contractors schedule
- 2) Provide project status and schedule updates to the Town of Barron and Barron County
- 3) Provide, review and recommendation of payment applications
- 4) Project closeout and other administration and inspection services necessary to complete the project
- 5) Provide cost for construction management and inspection as a NOT TO EXCEED amount. Billing will be on TIME AND MATERIALS up to the NOT TO EXCEED amount without prior, written authorization.

MEETINGS:

- 1) Include at minimum the following meetings in the Design Services Section of the bid:
 - a) Two Owner – Consultant meetings in Barron County
 - b) Zoom meetings with the superstructure designer as needed.
 - c) Bid Opening meeting
- 2) Include at minimum the following meetings in the Construction Inspection Services Section of the bid:
 - a) Preconstruction meeting

QUALIFICATIONS AND REFERENCES:

- 1) Provide qualifications, past project experience and references with the proposal
- 2) Provide a list of proposed subcontractors with the proposal
- 3) Provide a proposed schedule for the design project with available capacity

PROPOSAL PREPARATION:

- 1) Maximum of 15 pages total allowed for proposal submission including qualifications, references, ect
- 2) Electronic submittal of the Proposal will be allowed. If electronic is used, proposals should be directed to Mark Servi, Barron County Highway Commissioner.
- 3) Neither the Town of Barron or Barron County will be responsible for any costs incurred by the proposers in responding to this RFP

DESIGN / CONSTRUCTION MANAGEMENT SERVICES:

- 1) Design Services \$ _____
- 2) Construction Management / Inspection Services \$ _____
 NOT TO EXCEED AMOUNT

Total \$ _____

INQUIRES AND INTERPRETATIONS:

1. No interpretation of the meaning of the RFP will be made to any proposer verbally. Every request for such interpretation should be in writing and addressed to: Barron County Highway Commissioner, 260 N 7th St, Barron, WI 54812, or e-mail at mark.servi@co.barron.wi.us
2. To be given consideration, a request for interpretation must be received at least three (3) days prior to the date the proposal is due. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be sent via e-mail or fax not later than two (2) days prior to the due date of the proposal.
3. Failure of any Proposer to receive any such addendum or interpretation shall not relieve the proposer from any obligation under their proposal as submitted. All addenda so issued shall become part of the RFP.

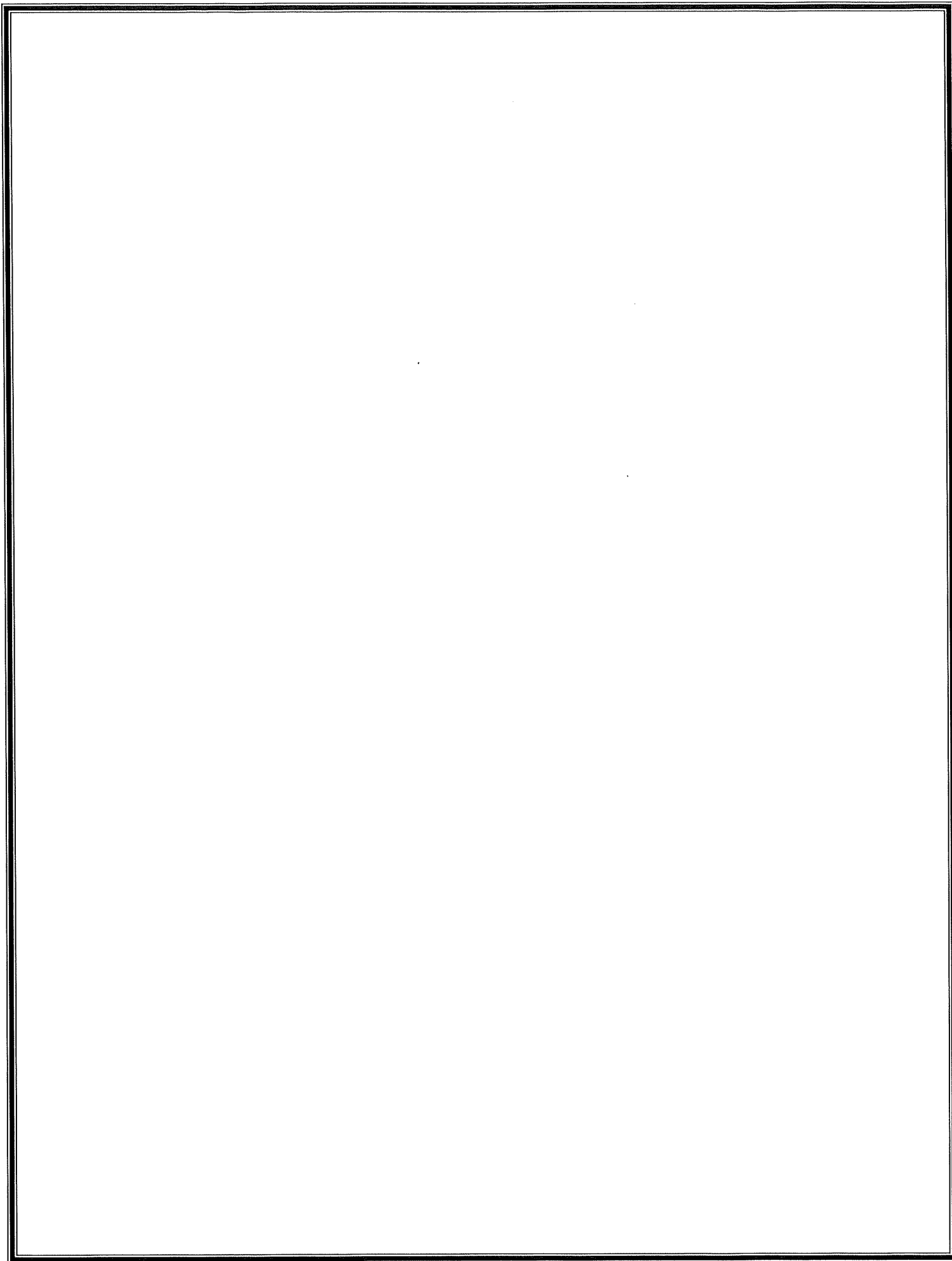
PROPOSER PERSONNEL REQUIREMENTS AND DETERMINATION OF RESPONSIBILITY:

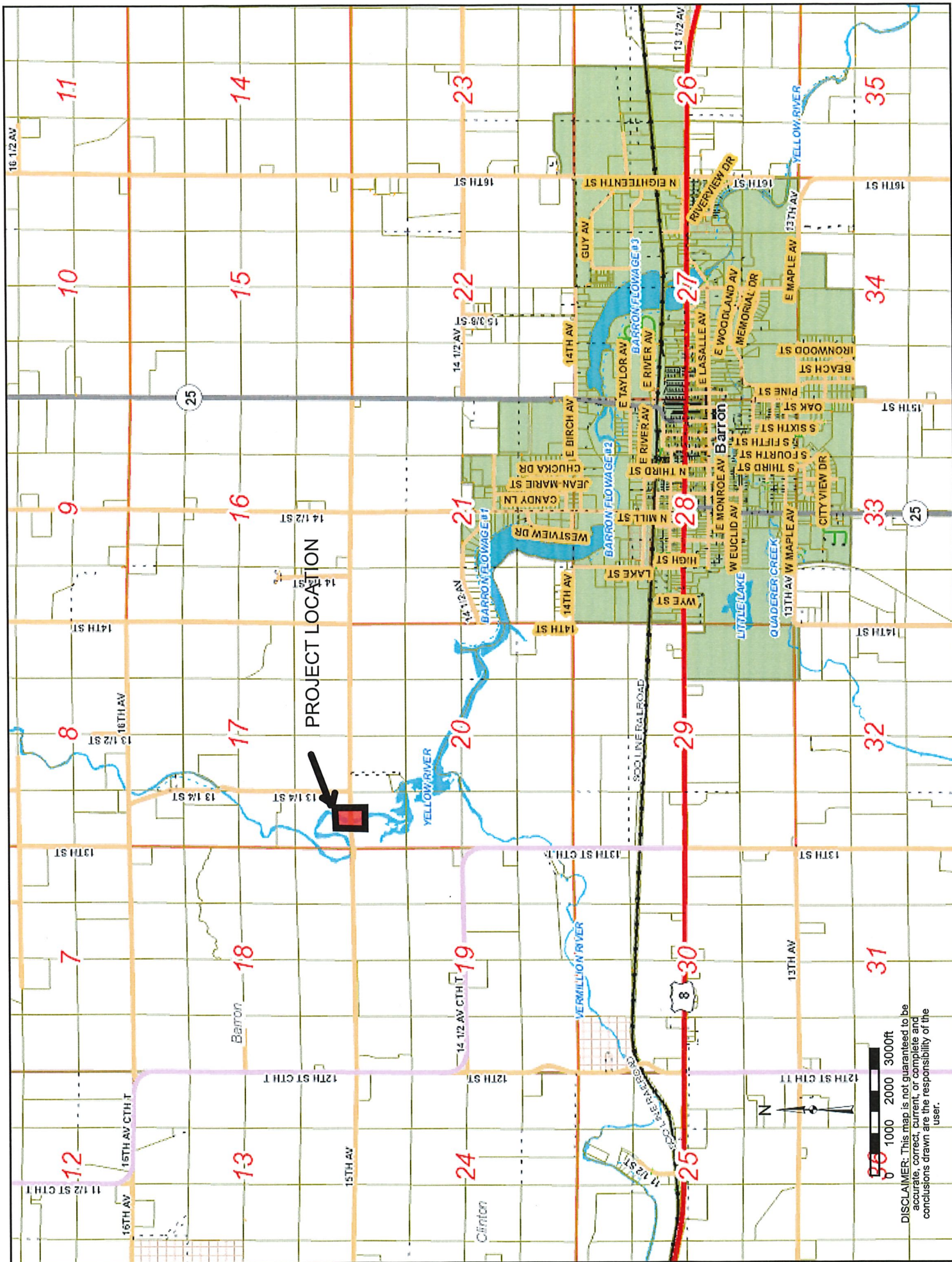
1. Barron County may make such investigations as deemed necessary to determine the ability of the proposer to supply the product or service. The proposer shall furnish to Barron County all such information and data as Barron County may request.
2. Proposers are encouraged to promptly notify the Highway Commissioner, in writing, of any apparent major inconsistencies, problems, or ambiguities in the Specifications. Address notifications to: Barron County Highway Commissioner, 260 N 7th St, Barron, WI 54812, or e-mail mark.servi@co.barron.wi.us

PROJECT TIMETABLE:

- | | |
|----------------------|--|
| 1. Completed RFP Due | September 8, 2022 @ 1:00 pm |
| 2. RFP Openings | September 8, 2022 @ 1:00 pm |
| 3. Contract Approval | Pending review of proposals and approval from Town of Barron |
| 4. Notice of Award | Pending review of proposals and approval from Town of Barron |

Sealed proposals for the services described herein will be received until 1:00 pm, local time, Thursday September 8, 2022 by the Barron County Highway Department, Office of the Highway Commissioner, 260 N 7th St, Barron, WI 54812. Proposals may be e-mailed to mark.servi@co.barron.wi.us. E-mailed proposals will be kept confidential until they are read at the RFP opening.





DISCLAIMER: This map is not guaranteed to be accurate, correct, or complete and the conclusions drawn are the responsibility of the user.



Inspection Report for
P-03-093 (15TH AVENUE)
15TH AVE over YELLOW RIVER
May 23,2022



Type	Prior	Team Leader	Frequency (mos)	Performed
Routine	05-17-21	Fedderly, Dan (9558)	12	X
Interim	12-12-18	Bjorklund, Allan M (8003)	0	
Load Posted Verification (dt2122)	11-22-17	Pence, Alex (9019)		
SIA Review	05-21-20	Fedderly, Dan (9558)	48	

Latitude 45°25'24.14"N
Longitude 91°53'10.34"W

Owner TOWN
Maintainer TOWN

Team members			
Time Log	Hours 0	Minutes 45	Mike Falls 9622
Weather	Temperature (f) 60	Condition Partly Cloudy	

Name	Number	Signature	Signature Date
Inspector Fedderly, Dan	9558	<i>Dan Fedderly</i>	05-23-22
		E-signed by Daniel J Fedderly P.E. P.L.S.(DJFedderly)	

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 2

Identification & Location

Feature On: 15TH AVE	Section Town Range: S17 T34N R12W	Structure Number: P-03-093
Feature Under: YELLOW RIVER	County: BARRON	
Location 1.1M E JCT CTH T	Municipality: BARRON	Structure Name: 15TH AVENUE

Geometry

measurements in feet, except where noted

Approach Roadway Width: 30	Bridge Roadway Width: 28.5	Total Length: 96.3
Approach Pavement Width: 20	Deck Width: 29.8	Deck Area (sq ft): 2870

Traffic

Lanes	ADT	ADT year	Traffic Pattern
On 2	47	2015	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating: HS15	Overburden depth (in): 3.0	Last rating date: 12-05-14	Controlling:
Operating rating: HS23	Deck surface material: BITUMINOUS		Control location:
Posting: 15 TON LOAD LIMIT	Emergency Vehicle Weight Limit (tons):		
Re-rate for capacity (Y/N):	Re-rate notes:		

Hydraulic

Classification

Scour Critical Code(113): (8) STABLE-ABOVE TOP FOOTING	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 58.5

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	TIMBER	FLAT SLAB		31.5	
2	TIMBER	FLAT SLAB		32.0	Y
3	TIMBER	FLAT SLAB		31.5	

Expansion joint(s)

Temperature:	File:73	New:60
---------------------	---------	--------

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Construction History

Year	Work Performed	FOS id
1976	NEW STRUCTURE	

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Deck - Clean and Sweep Deck/Drains		COMPLETE	12/28/17	2015
Comment: Cleaned sand from deck		Status Comment:		
Substructure - Other Work	Falls, Mike (9622)	COMPLETE	07/18/20	2020
Comment: Replace West Spreader Beam and look repair replace deck 2108		Status Comment:		

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 3

Structure No.: **P-03-093**

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Drainage - Clean Flumes/Downspouts/Inlets	HIGH	Fedderly, Dan (9558)	IDENTIFIED	05/23/22
Comment: Clean south scuppers 2021, 2022		Status Comment:		
Substructure - Other Work	HIGH	Fedderly, Dan (9558)	IDENTIFIED	05/23/22
Comment: Monitor spreader beams tightness, 2022		Status Comment:		
Deck - Seal Surface Cracks	MEDIUM	Fedderly, Dan (9558)	IDENTIFIED	05/23/22
Comment: Seal Cracks in AC Overlay, 2022		Status Comment:		

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	54		Timber Slab	SF	2,870	2,219	321	192	138
		1020	Connection Outer deck edge separated from main deck 2016 separation at bay 5 center 2018 No change 2021, 2022	SF		0	96	0	0
		1150	Checks-Shakes-Cracks-Splits-Delam Cracked timbers in load path and outside edge & broken plank 2016 Bay #1 - 3 broken plank 2018,2020 Bay #2 - 2 broken plank 2018,2020 Bay #3 - 1 broken plank 2018,2020 Bay #4 - 3 broken plank 2018,2020 Bay #5 - 1 broken plank 2018,2020 Bay #6 - 3 broken plank 2018,2020 No change 2021, 2022	SF		0	225	192	138
		8511	AC Overlay	SF	2,870	0	0	0	2,870
		3220	Crack (Wearing Surface) Alligator cracking throughout and potholes Surface failed (2016), 2018, 2020, some patching 2021 still failed overlay	SF		0	0	0	2,870
X	8166		Timber Spreader Beam	LF	88	0	59	0	29
		1150	Checks-Shakes-Cracks-Splits-Delam west Spreader beam broken 2016, 2018, 2020 other Spreader beams with Checks 2020 Shimmed in 2021 check bolt tightness	LF		0	59	0	29
X	216		Timber Abutment	LF	65	65	0	0	0
X	228		Timber Pile	EA	28	14	13	1	0
		1140	Decay/Section Loss West pier #4 decayed at water line 2022	EA		0	0	1	0
		1150	Checks-Shakes-Cracks-Splits-Delam All Pier piles have cracks and decay at the water line 2018, 2020, 2021	EA		0	13	0	0

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 4

Structure No.: **P-03-093**

X	235		Timber Cap	LF	127	79	42	6	0
		1150	Checks-Shakes-Cracks-Splits-Delam All cap ends split 1/2" at SW & NW & south pier 2108, 2020 east cap with cracks/checks 2018, 2020 No change 2021, 2022	LF		0	42	6	0
X	330		Metal Bridge Rail	LF	193	0	193	0	0
		1180	Abrasion-Wear (Timber) abrasion on curb 2016, 2018, 2020, 2021, 2022	LF		0	193	0	0
X	8400		Integral Wingwall	EA	4	0	4	0	0
		8903	Wall Deterioration NW Wing Worst deterioration 2018 No change 2021, 2022	EA		0	4	0	0

Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9001		Drainage - Ends of Structure	EA	4	4	0	0	0
X	9004		Drainage Drains plugged at South 2016, 2018, 2021 and North 2020, north cleaned 2021	EA	30	15	0	0	15
X	9030		Signs - Object Markers NW hit 2019, repaired 2020	EA	4	4	0	0	0
X	9034		Signs - Weight Limit Posting 15 TON, 2 AT BRIDGE, 4 ADVANCED	EA	6	6	0	0	0
X	9045		Slope Protection- Riprap Add riprap east and west abutment 2018, 2020	EA	2	2	0	0	0
X	9169		Lateral Bracing Decay at water line 2018, splitting on ends at bolts 2021	EA	4	0	4	0	0
X	9323		Approach Roadway - Asphalt rutted, cracked , 2018 - 2019 Patched 2020, 2021	EA	2	0	2	0	0

NBI Ratings

	File	New
Deck	5	4
Superstructure	5	4
Substructure	6	6
Culvert	N	N
Channel	8	8
Waterway	5	5

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 5

Structure No.: **P-03-093**

Structure Specific Notes

undwtr/probe/ok Maintenance recommendations: Rip-rap upstream pier noses on both piers and remove trees under and upstream of bridge.

Inspection Specific Notes

SPREADER BEAMS ARE LOOSE CAUSING FLEXING OF DECK & CRACKING
TIGHTEN SPREADER BEAMS
STRAIGHTEN BRIDGE MARKERS
5" SCOUR HOLE DOWN STREAM WEST END
ASPHALT OVERLAY CRACKING AT FLOORBEAMS, STARTING TO FORM POT HOLES IN SOUTH LOAD PATH. 2018
OVERLAY CRACKED 2018
CLEAN DRAINS BOTH SIDES 2018

Inspector Site-Specific Safety Considerations

Routine Specific Procedures

Special Requirements

Chk	Hours	Cost	Comments
-----	-------	------	----------

**Underwater Probe Form
P-03-093****General Site Conditions - Scour**

--


General Site Conditions - Embankment Erosion/Conditions

--

Substructure Notes

Chk	Unit	Max Water Depth(ft)	Mode	Notes
X	Cardinal	0.0	Boat	
X	Pier 1	4.0	Boat	2018 QA Review(Add water depth)
X	Pier 2	2.5	Boat	2018 QA Review(Add water depth)
X	Non Cardinal	0.0	Boat	


Other Item 1

2021	 <p>p03-093_22_0d1.jpg</p>
Linked Element(s): Approach Roadway - Asphalt	


Other Item 2

2021	 <p>p03-093_22_0d2.jpg</p>
Linked Element(s): Timber Slab Timber Spreader Beam Lateral Bracing	


Other Item 3

2021	 <p>p03-093_22_0d3.jpg</p>
Linked Element(s): Timber Slab	


Other Item 4

2021	 <p>p03-093_22_0d4.jpg</p>
Linked Element(s): Timber Cap	

Other Item 5

2021	 <p>p03-093_22_0d5.jpg</p>
------	---

Routine Item 1

	 <p>p03-093_22_Rd1.jpg</p>
Linked Element(s): Approach Roadway - Asphalt Timber Slab -> AC Overlay	


Routine Item 2

	 <p>p03-093_22_Rd2.jpg</p>
<p>Linked Element(s): Timber Cap</p>	


Routine Item 3

	 <p>p03-093_22_Rd3.jpg</p>
<p>Linked Element(s): Timber Slab Timber Spreader Beam</p>	


Routine Item 4

	 <p>p03-093_22_Rd4.jpg</p>
<p>Linked Element(s): Timber Pile</p>	


Routine Item 5

	 <p>p03-093_22_Rd5.jpg</p>
Linked Element(s): Timber Cap	

Routine Item 6

	 <p>p03-093_22_Rd6.jpg</p>
Linked Element(s): Drainage	

Routine Item 7

	 <p>p03-093_22_Rd7.jpg</p>
Linked Element(s): Timber Slab Timber Spreader Beam	